

Amendment A
Inventor(s) Name: PFEIFFER
Attorney Docket no.: 964-1722

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior revisions, and listings, of claims in the application.

Listing of Claims:

Claims 1-2 (canceled)

Claim 3 (Currently amended): A foam block concrete form having top and bottom longitudinal edges comprising:

a pair of opposing foam panels spaced parallel from each other, each panel having at least one substantially planar rectangular segment having a horizontal pair of opposing longitudinal edges, [and] a vertical pair of longitudinal edges, and inner and outer surfaces;

engaging means formed along the [pair] horizontal and vertical pairs of longitudinal edges associated with each panel for removably [retaining longitudinal edges] engaging one block form with other block forms having similar and complimentary engaging means associated therewith [formed therealong] when placed both side-by-side and vertically adjacent thereto[, so the foam panels can be inverted in any manner and the engaging means are still capable of retaining any other longitudinal edge with a similar engaging means]; [and]

the engaging means associated with the horizontal pair of opposing longitudinal edges of each panel including two rows of alternating teeth and sockets, one row being offset from the other row by the distance of one side of one tooth, the teeth associated with one of the opposed horizontal longitudinal edges being vertically aligned with the sockets associated with the other of the opposed horizontal longitudinal edges and the sockets associated with one of the

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opposed horizontal longitudinal edges being vertically aligned with the teeth associated with the other of the opposed horizontal longitudinal edges;

said pair of opposing panels forming said block form being disposed relative to each other such that the teeth associated with the row of alternating teeth and sockets located adjacent the outer surface of one of said pair of panels are horizontally aligned with the sockets associated with the row of alternating teeth and sockets located adjacent the outer surface of the other of said pair of panels, and the teeth associated with the row of alternating teeth and sockets located adjacent the inner surface of one of said pair of panels are horizontally aligned with the sockets associated with the row of alternating teeth and sockets located adjacent the inner surface of the other of said pair of panels; and

a plurality of substantially planar ties positioned transverse to and between the pair of opposing foam panels, each tie including a web portion separating a pair of opposed flange members encapsulated within respective opposing foam panels along a respective lateral panel axis;

said engaging means enabling one of said block forms to be engaged with a plurality of similarly constructed block forms in both a side-by-side arrangement and a vertically stacked arrangement regardless of the orientation of said block forms, the top longitudinal edges of one block form being engageable with both the top and bottom longitudinal edges of another similarly constructed block form and the bottom longitudinal edges of one block form being engageable with both the top and bottom longitudinal edges of another similarly constructed block form.

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Claim 4 (Canceled):

Claim 5 (Canceled):

Claim 6 (Canceled):

Claim 7 (Original): The apparatus of claim 3 wherein each opposing foam panel includes two substantially planar rectangular segments in angular relation to each other, each segment having at least one pair of opposing edges.

Claim 8 (Original): The apparatus of claim 3 wherein each opposing flange member is substantially planar and of sufficient strength to function as an anchoring stud.

Claim 9 (Original): The apparatus of claim 8 wherein each opposing flange member can be functionally encased within a respective opposing foam panel.

Claim 10 (Original): The apparatus of claim 9 wherein the opposing foam panels have a longitudinal axis and the opposing flange members have a longitudinal axis substantially equal in length to the transverse axis of the respective foam panel.

Claim 11 (Original): The apparatus of claim 3 wherein the web portion includes a pair of bridge members formed therein spaced parallel from each other and transverse to the opposing flange members.

Claim 12 (Original): The apparatus of claim 11 wherein each bridge member includes at least one rebar-retaining seat positioned therealong extending outwardly therefrom.

Claim 13 (Original): The apparatus of claim 12 wherein each bridge member includes at least one rebar-retaining seat positioned therealong extending inwardly therefrom.

Claim 14 (Original): The apparatus of claim 13 wherein the rebar-retaining seats are

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sufficiently large to retainably receive a plurality of rebar rods therewithin.

Claim 15 (Original): The apparatus of claim 11 wherein the opposing bridge members, in conjunction with each other, provide uniformly distributed structural support about the central lateral axis of the tie.

Claim 16 (Original): The apparatus of claim 15 wherein the opposing bridge members individually provide uniformly distributed structural support about their respective longitudinal axis when the tie is laterally cut in half.

Claims 17-38 (Canceled)

Claim 39 (Currently amended): A foam block concrete form comprising:

a pair of opposing foam panels spaced apart in a substantially parallel relationship, each panel including a pair of horizontally opposed edges and inner and outer surfaces [pairs of opposing perimeter edges];

a plurality of ties extending between and connecting the foam panels; and two rows of alternating teeth and sockets associated with each horizontally opposed edge of each panel, one row being positioned adjacent the outer surface of said panel and one row being positioned adjacent the inner surface of said panel and one row being offset from the other row such that when said pair of opposed panels are disposed relative to each other to form said block form the teeth associated with the row of alternating teeth and sockets positioned adjacent the outer surface of one of said pair of panels are horizontally aligned with the sockets associated with the row of alternating teeth and sockets positioned adjacent the outer surface of the other of said pair of panels forming said block form, and the teeth associated with the row of alternating

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teeth and sockets positioned adjacent the inner surface of one of said pair of panels are horizontally aligned with the sockets associated with the row of alternating teeth and sockets positioned adjacent the inner surface of the other of said pair of panels forming said block form; said two rows of alternating teeth and sockets associated with each horizontally opposed edge of each panel forming said block form and their horizontal positioning relative to each other enabling one of said block forms to be engaged with a plurality of similarly constructed block forms in a vertically stacked arrangement regardless of the orientation of said block forms, the top horizontal edges of one block form being engageable with both the top and bottom horizontal edges of another similarly constructed block form and the bottom horizontal edges of one block form being engageable with the top and bottom horizontal edges of another similarly constructed block form

[a plurality of teeth positioned along each of the perimeter edges; and
a plurality of sockets defined by the teeth, forming a configuration of substantially similar teeth and sockets along each perimeter edge, operable to permit the foam block to be connected to a perimeter edge of a substantially similar foam block with a substantially identical configuration of teeth and sockets along any perimeter edge].

Claim 40 (Canceled)

Claim 41 (Canceled)

Claim 42 (Canceled)

Claim 43 (Withdrawn): A building structure including a plurality of concrete forms, a plurality of rebar members extending through the forms, concrete poured into the forms, and at least one

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concrete form comprising:

- a pair of opposing foam panels spaced apart in a substantially parallel relationship, each panel including at least one pair of opposing longitudinal edges;
- a plurality of ties extending between and connecting the foam panels;
- a plurality of teeth positioned along each of the longitudinal edges;
- a plurality of sockets defined by the teeth forming a configuration of teeth and sockets operable to permit the stacking of foam blocks both upon and below adjacent blocks, which have a substantially identical configuration of teeth and sockets.

Claim 44 (Withdrawn): A method of construction comprising:

- assembling a plurality of concrete forms, at least one including a pair of opposing foam panels spaced apart in a substantially parallel relationship, each panel including:

- at least one pair of opposing longitudinal edges;
 - a plurality of ties extending between and connecting the foam panels;
 - a plurality of teeth positioned along each of the longitudinal edges;
 - a plurality of sockets defined by the teeth forming a configuration of teeth and sockets operable to permit the stacking of foam blocks both upon and below adjacent blocks having a substantially identical configuration;
- stacking the concrete forms to make a desired floor plan;
- positioning rebar in the forms; and
- introducing concrete between the forms.

Claim 45 (Withdrawn): The method according to claim 44 further comprising cutting at least

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one of the forms parallel to a vertical axis and stacking both pieces.

Claim 46 (Withdrawn): The method according to claim 44 further comprising cutting at least one of the forms parallel to a longitudinal axis and stacking both pieces.

Claim 47 (New): A concrete block form comprising:

a pair of opposing panels positioned and spaced apart in a substantially parallel relationship to each other, each panel having a pair of horizontally opposed longitudinally edges, a pair of vertical longitudinal edges, and inner and outer surfaces;

engagement means formed along the horizontal and vertical pairs of longitudinal edges associated with each panel for removably attaching one concrete block form to other concrete block forms having similar and complimentary engaging means associated therewith when such concrete block forms are placed both side-by-side and vertically adjacent thereto;

the engaging means associated with the horizontal pair of opposing longitudinal edges associated with each panel including two rows of alternating teeth and sockets, one row being offset from the other row, the teeth associated with one of the opposed horizontal longitudinal edges being vertically aligned with the sockets associated with the other horizontally opposed longitudinal edge, and the sockets associated with one of the opposed horizontal longitudinal edges being vertically aligned with the teeth associated with the other horizontally opposed longitudinal edge;

the engaging means associated with the vertical pair of longitudinal edges including two columns of alternating teeth and sockets, one column being offset from the other column, the location of the teeth associated with one of the vertical longitudinal edges

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corresponding with the sockets associated with the other of the vertical longitudinal edges and the location of the sockets associated with one of the vertical longitudinal edges corresponding with the location of the teeth associated with the other of the vertical longitudinal edges;

said pair of panels forming said concrete block form being disposed relative to each other such that the teeth associated with the row of alternating teeth and sockets located adjacent the outer surface of one of said pair of panels are horizontally aligned with the sockets associated with the row of alternating teeth and sockets located adjacent the outer surface of the other of said pair of panels, and the teeth associated with the row of alternating teeth and sockets located adjacent the inner surface of one of said pair of panels being horizontally aligned with the sockets associated with the row of alternating teeth and sockets located adjacent the inner surface of the other of said pair of panels; and

a plurality of ties extending between said pair of opposed panels for holding said panels in said spaced apart substantially parallel relationship;

said engaging means enabling one of said concrete block forms to be engaged with a plurality of similarly constructed concrete block forms in both a side-by-side arrangement and a vertically stacked arrangement regardless of the orientation of said concrete block forms, the top longitudinal edges of one concrete block form being engageable with both the top and bottom longitudinal edges of another similarly constructed block form and the bottom longitudinal edges of one concrete block form being engageable with both the top and bottom longitudinal edges of another similarly constructed concrete block form.

Claim 48 (New): A foam block concrete form comprising:

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a pair of opposing panels positioned and spaced apart in substantially parallel relationship to each other, each panel having top and bottom horizontal longitudinal edges, first and second end portions, and inner and outer surfaces;

a plurality of ties extending between said pair of opposed panels for holding said panels in said spaced apart substantially parallel relationship;

first engaging means associated with the first and second end portions of each panel for removably attaching one pair of panels to a similarly constructed pair of panels in side-by-side relationship to each other; and

second engaging means associated with the top and bottom longitudinal edges of each panel for stackably attaching one pair of panels to another similarly constructed pair of panels, said second engaging means including two rows of alternating teeth and sockets, one row being offset from the other row, the teeth associated with the top longitudinal edge being vertically aligned with the sockets associated with the bottom longitudinal edge;

said pair of panels forming said block form being disposed relative to each other such that the teeth associated with the row of alternating teeth and sockets located adjacent the outer surface of one of said pair of panels are horizontally aligned with the sockets associated with the row of alternating teeth and sockets located adjacent the outer surface of the other of said pair of panels, and the teeth associated with the row of alternating teeth and sockets located adjacent the inner surface of one of said pair of panels being horizontally aligned with the sockets associated with the row of alternating teeth and sockets located adjacent the inner surface of the other of said pair of panels; and

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said second engaging means enabling one of said block forms to be vertically removably attached with a plurality of similarly constructed block forms regardless of the orientation of said block forms, the top longitudinal edges of one block form being engageable with both the top and bottom longitudinal edges of another similarly constructed block form, and the bottom longitudinal edges of one block form being engageable with both the top and bottom longitudinal edges of another similarly constructed block form.

Claim 49 (New): The apparatus of Claim 48 wherein each of said plurality of ties includes a web portion positioned between a pair of opposed flange members, each flange member being encapsulated within one of said respective pair of opposing panels.

Claim 50 (New): The apparatus of Claim 48 wherein said first and second engaging means are substantially identical in construction.

Claim 51 (New): The apparatus of Claim 11 wherein each bridge member includes at least one re-bar retaining seat positioned therealong extending outwardly therefrom and at least one re-bar retaining seat positioned therealong extending inwardly therefrom.